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UNITED STATES DEPARTMENT OF AGRICULTURE
Agricultural Research Administration
Bureau of Agricultural and Industrial Chemistry

NAVAL STORES REPORT

on

Production, Distribution, Consumption and Stocks

of

TURPENTINE AND ROSIN

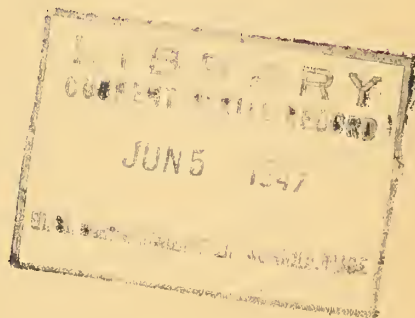
of the

UNITED STATES

By Crop Years

April 1, 1946 - March 31, 1947

Issued May 9, 1947



Compiled by

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Naval Stores Research Division

FOREWORD

This is the thirteenth of the series of annual reports by the U. S. Department of Agriculture giving production, consumption, and stocks of naval stores. The period covered by the annual reports is that of the naval stores season, April 1 - March 31. Semi-Annual reports, covering the six-month period, April 1 - September 30, Quarterly reports covering the First and Third Quarters of the Naval Stores Season, and a Monthly Survey of Naval Stores Stocks are also issued. These reports are issued under Federal Act 278, providing for the publication of statistics relating to spirits of turpentine and rosin produced, held and used in the domestic and foreign commerce of the United States.

As in previous reports, carryover (stocks) of turpentine and rosin is separated into gum and wood products. Stocks of wood rosin do not include so-called "B wood resin." While sulphate wood turpentine is carried in the regular production and carryover tables, data on tall oil are in a table separate from gum and wood rosins. The term tall oil refers to the mixture of resin and fatty acids recovered by the acidification of the soap curds (black liquor soap) obtained in the production of sulphate pulp. The tall oil so obtained contains approximately 42 percent of resin acids.

The data on production, consumption and stocks are expressed in commercial units: For turpentine, barrels of 50 gage gallons; and for rosin, drums of approximately 520 pounds net weight. A unit of naval stores consists of one barrel of turpentine and two and two-thirds drums of rosin. Carryover figures do not include gum turpentine or rosin producible from stocks of crude gum on hand.

These reports are designed to be of use to the industry -- producer, processor, factor, distributor, and consumer. Every effort is made to obtain complete and accurate information but the completeness, accuracy, and promptness of issue depend upon the cooperation of those reporting. In accepting the statistics given in this report, as well as those in previous reports, it should be borne in mind that the Bureau of Agricultural and Industrial Chemistry merely assembles the figures from the individual reports received and is not responsible for their accuracy.

The Bureau of Agricultural and Industrial Chemistry extends its thanks to those producers, processors, factors, distributors, and consumers who have so kindly cooperated in furnishing the requested information.

SPECIAL NOTICE

This is the last statistical report on naval stores to be issued by the Bureau of Agricultural and Industrial Chemistry. Hereafter, the responsibility for collecting, compiling, and publishing statistics on production, consumption, distribution, and stocks of Naval Stores will be in the hands of the Bureau of Agricultural Economics, Washington, D. C., under the direction of Mr. W. F. Callander, Chairman of the Crop Reporting Board.

SUPPLY OF TURPENTINE

SUPPLY, DISTRIBUTION AND CARRYOVER (Bbls. - 50 gals.)
(By naval stores crop years, beginning April 1 and ending March 31)

<u>1946-47</u>			<u>1945-46</u>		
<u>12 mos. (Apr. - Mar.)</u>			<u>12 mos. (Apr. - Mar.)</u>		
<u>Total</u>	<u>Gum</u>	<u>Wood</u>	<u>Total</u>	<u>Gum</u>	<u>Wood</u>

TABLE 1a - SUPPLY AND DISTRIBUTION

U. S. Carryover April 1 ^{1/}	100,749	58,083	42,661	202,546	168,011	34,535
Production ^{2/}	569,985	270,236	299,699	488,131	244,252	243,879
Imports	<u>15,849</u>	<u>15,849</u>	<u>---</u>	<u>14,932</u>	<u>14,932</u>	<u>---</u>
Available Supply	686,583	344,223	342,360	705,609	427,195	278,414
Loss Carryover March 31 ^{1/}	<u>98,205</u>	<u>34,433</u>	<u>63,772</u>	<u>100,749</u>	<u>58,083</u>	<u>42,661</u>
Apparent Total Consumption	588,378	309,790	278,588	604,860	369,107	235,753
Less Exports	<u>104,958</u>	<u>64,066</u>	<u>40,892</u>	<u>92,445</u>	<u>67,111</u>	<u>25,334</u>
Apparent U. S. Consumption	483,420	245,724	237,696	512,415	301,996	210,419

TABLE 2a - CARRYOVER (Stocks)

U. S. Carryover April 1	100,749	58,083	42,661	202,546	168,011	34,535
U. S. Carryover March 31	<u>98,205</u>	<u>34,433</u>	<u>63,772</u>	<u>100,749</u>	<u>58,083</u>	<u>42,661</u>
Increase	---	---	21,111	---	---	8,126
Decrease	2,544	23,655	---	101,797	109,923	---

^{1/} Table 4a.

^{2/} Table 5a.

SUMMARY OF ROSIN

SUPPLY, DISTRIBUTION AND CARRYOVER (Drums - 520 lbs. net)
(By naval stores crop years, beginning April 1 and ending March 31)

<u>1946-47</u>			<u>1945-46</u>		
<u>12 mos. (Apr. - Mar.)</u>			<u>12 mos. (Apr. - Mar.)</u>		
<u>Total</u>	<u>Gum</u>	<u>Wood</u>	<u>Total</u>	<u>Gum</u>	<u>Wood</u>

TABLE 1b - SUPPLY AND DISTRIBUTION

U. S. Carryover						
April 1 ^{1/}	375,898	237,504	138,394	388,266	265,881	122,385
Production ^{2/}	1,720,248	752,535	967,713	1,452,036	694,476	757,560
Imports	192	192	---	9,795	9,795	---
Available Supply	2,096,338	990,231	1,106,107	1,850,097	970,152	879,945
Less Carryover						
March 31 ^{1/}	222,701	127,284	95,417	375,898 ^{3/}	237,504	138,394 ^{3/}
Apparent Total						
Consumption	1,873,637	862,947	1,010,690	1,474,199 ^{3/}	732,648	741,551 ^{3/}
Loss Exports	501,447	320,475	180,972	206,810	105,354	101,456
Apparent U. S.						
Consumption	1,372,190	542,472	829,718	1,267,389 ^{3/}	627,294	640,095 ^{3/}

TABLE 2b - CARRYOVER (Stocks)

U. S. Carryover						
April 1	375,898	237,504	138,394	388,266	265,881	122,385
U. S. Carryover						
March 31	222,701	127,284	95,417	375,898 ^{3/}	237,504	138,394 ^{3/}
Increase	---	---	---	---	---	16,009 ^{3/}
Decrease	153,197	110,220	42,977	12,368 ^{3/}	28,377	---

^{1/} Table 4b.

^{2/} Table 5b. Includes reclaimed rosin.

^{3/} Revised from previous annual report, correcting error in the carryover stocks of wood rosin.

DETAILS AND SUMMARY OF TURPENTINE CARRYOVER (Bbls. - 50 gals.)

	<u>1947</u> <u>March 31</u>			<u>1946</u> <u>March 31</u>		
	<u>Total</u>	<u>Gum</u>	<u>Wood</u>	<u>Total</u>	<u>Gum</u>	<u>Wood</u>
<u>TABLE 3a - DETAILS OF TURPENTINE CARRYOVER (Stocks)</u>						
<u>Production Points</u> ^{1/}						
Gun Still ^{2/}	12,450	12,450	---	10,102	10,102	---
Wood Plants						
Steam Dist.	17,349	---	17,349	8,866	---	8,866
Sulphate	16,586	---	16,586	7,764	---	7,764
West. Dist.	<u>333</u>	<u>---</u>	<u>333</u>	<u>321</u>	<u>---</u>	<u>321</u>
Total	46,718	12,450	34,268	27,053	10,102	16,951
<u>Sou. Concent. Points</u> ^{1/}	3,646	3,646	---	21,021	21,021	---
<u>Distribution Points</u>						
Eastern	9,329	3,743	6,081	10,402	7,664	2,738
Central	12,203	6,896	5,307	14,171	9,080	5,091
Western	<u>4,192</u>	<u>2,937</u>	<u>1,255</u>	<u>5,635</u>	<u>4,134</u>	<u>1,501</u>
Total ^{3/}	26,224	13,581	12,643	30,208	20,873	9,330
<u>Industrial Plants</u> ^{4/}	21,617	4,756	16,861	22,467	6,087	16,380

TABLE 4a - SUMMARY OF TURPENTINE CARRYOVER (Stocks)

Production Points	46,718	12,450	34,268	27,053	10,102	16,951
Sou. Concent. Points	3,646	3,646	---	21,021	21,021	---
Distribution Points	26,224	13,581	12,643	30,208	20,873	9,330
Industrial Plants	<u>21,617</u>	<u>4,756</u>	<u>16,861</u>	<u>22,467</u>	<u>6,087</u>	<u>16,380</u>
Total in U. S.	98,205	34,133	63,772	100,749	58,083	42,661

1/ Irrespective of ownership. Some of the turpentine may have been sold and may be awaiting shipment.

2/ Compiled from reports by producers, processors, and factors.

3/ Compiled from reports of individual distributors.

4/ Compiled from reports of individual consumers.

DETAILS AND SUMMARY OF ROSIN CARRYOVER (Drums - 520 lbs. net)

1947
March 31

1946
March 31

	<u>Total</u>	<u>Gum</u>	<u>Wood</u>	<u>Total</u>	<u>Gum</u>	<u>Wood</u>
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TABLE 3b - DETAILS OF ROSIN CARRYOVER (Stocks)

<u>Production Points^{1/}</u>						
Gum Still ^{2/}	17,651	17,651	---	63,282	63,282	---
Wood Plants						
Steam Dist. ^{3/}	27,987	---	27,987	53,578		53,578
Sulphate	---	---	---	---	---	---
Dest. Dist.	---	---	---	---	---	---
Total	45,638	17,651	27,987	116,860	63,282	53,578
<u>Sou. Concent. Points^{1/}</u>						
	5,415	5,415	---	18,524	18,524	---
<u>Distribution Points</u>						
Eastern	4,808	2,707	2,101	8,502	6,523	1,979
Central	4,498	2,680	1,818	6,073	3,335	2,738
Western	745	288	457	464	165	299
Total ^{4/}	10,051	5,675	4,376	15,039	10,023	5,016
<u>Industrial Plants^{5/}</u>	161,597	98,543	63,054	225,475 ^{6/}	145,675	79,800 ^{6/}

TABLE 4b - SUMMARY OF ROSIN CARRYOVER (Stocks)

Production Points	45,638	17,651	27,987	116,860	63,282	53,578
Sou. Concent. Points	5,415	5,415	---	18,524	18,524	---
Distribution Points	10,051	5,675	4,376	15,039	10,023	5,016
Industrial Plants	161,597	98,543	63,054	225,475 ^{6/}	145,675	79,800 ^{6/}
Total in U. S..	222,701	127,284	95,417	375,898 ^{6/}	237,504	138,394 ^{6/}

- 1/ Irrespective of ownership. Some of the rosin may have been sold and may be awaiting shipment.
- 2/ Compiled from reports by producers, processors, and factors. Includes reclaimed rosin.
- 3/ Does not include by-products, such as "B wood resin," resulting from making paler grades from FF wood rosin.
- 4/ Compiled from reports of individual distributors.
- 5/ Compiled from reports of individual consumers.
- 6/ Revised from previous annual report, correcting error in the carryover stocks of wood rosin.

DETAILS OF PRODUCTION

(By naval stores crop years, beginning April 1 and ending March 31)

1946-47 1945-46
12 mos. (Apr. - Mar.) 12 mos. (Apr. - Mar.)

	<u>Total</u>	<u>Gum</u>	<u>Wood</u>	<u>Total</u>	<u>Gum</u>	<u>Wood</u>
TABLE 5a - PRODUCTION OF TURPENTINE (Bbls. - 50 gals.)						
Gum	270,286	270,286	---	244,252	244,252	---
Wood						
Steam Dist.	167,659	---	167,659	129,101	---	129,101
Sulphate	127,491	---	127,491	110,262	---	110,262
Dest. Dist.	<u>4,549</u>	<u>---</u>	<u>4,549</u>	<u>4,516</u>	<u>---</u>	<u>4,516</u>
Total	569,985	270,286	299,699	488,131	244,252	243,879

TABLE 5b - PRODUCTION OF ROSIN (Drums 520 lbs. net)

Gum	744,086	744,086	---	685,938	635,938	---
Reclaimed gum	8,449	8,449	---	8,538	8,538	---
Wood						
Steam Dist.	967,713 ^{1/}	---	967,713 ^{1/}	757,560 ^{1/}	---	757,560 ^{1/}
Sulphate	---	---	---	---	---	---
Dest. Dist.	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>
Total	1,720,248	752,535	967,713 ^{1/}	1,452,036	694,476	757,560 ^{1/}

TABLE 5c - PRODUCTION OF BLACK LIQUOR SOAP AND TALL OIL^{2/}

1946-47 1945-46
12 mos. (Apr. - Mar.) 12 mos. (Apr. - Mar.)

Black Liquor Soap		
Reported as produced	248,473 tons	200,130 tons
Black Liquor Soap		
Reported as acidified	232,169 tons	194,895 tons
To produce according to reports		
Crude Tall Oil	112,568 tons	94,314 tons

^{1/} This figure now represents the total primary production of FF wood rosin. Much of this is refined to produce pale grades with concomitant production of "B wood resin" as a by-product.

^{2/} See foreword for definition.

TABLE 6 - PRODUCTION OF GUM TURPENTINE BY STATES^{1/}

	<u>1946-47</u>		<u>1945-46</u>	
	<u>12 mos. (Apr. - Mar.)</u>		<u>12 mos. (Apr. - Mar.)</u>	
	<u>Barrels</u>	<u>Percentage</u>	<u>Barrels</u>	<u>Percentage</u>
Georgia	197,005	72.89	180,715	73.99
Florida	57,800	21.39	43,986	18.01
Alabama	10,682	3.95	13,735	5.62
Mississippi	2,795	1.03	3,099	1.27
South Carolina	1,127	0.42	1,807	0.74
Louisiana	<u>877</u>	<u>0.32</u>	<u>910</u>	<u>0.37</u>
Total	270,286	100.00	244,252	100.00

TABLE 7 - MISCELLANEOUS NAVAL STORES (Bbls. - 50 gals.)

	<u>1946-47</u>		<u>1945-46</u>	
	<u>12 mos. (Apr. - Mar.)</u>	<u>Mar. 31</u>	<u>12 mos. (Apr. - Mar.)</u>	<u>Mar. 31</u>
	<u>Production</u>	<u>Stocks</u>	<u>Production</u>	<u>Stocks</u>
Pine Oil	130,984	12,808	110,066	12,017
Pine Tar	100,998	1,701	81,992	1,795
Rosin Oil	18,094	2,260	18,083	2,972
Dipentene	27,320	12,737	19,395	3,164
Other Monocyclic Hydrocarbons	40,120	1,128	33,711	6,325

^{1/} A unit of naval stores consists of one 50-gallon barrel of turpentine and two and two-thirds drums (each 520 lbs. net) of rosin.

TABLE 8a - REPORTED CONSUMPTION OF TURPENTINE IN UNITED STATES (Bbls. - 50 gals.)
(By naval stores crop years, beginning April 1 and ending March 31)

	1946-47			1945-46		
	12 mos. (Apr. - Mar.)			12 mos. (Apr. - Mar.)		
	<u>Total</u>	<u>Gum^{1/}</u>	<u>Wood^{1/}</u>	<u>Total</u>	<u>Gum^{1/}</u>	<u>Wood^{1/}</u>
Abattoirs	0			0		
Adhesives & plastics	228			264		
Asphaltic products	56			0		
Automobiles & wagons	91			161		
Chemicals & pharmaceuticals	91,352			107,078		
Ester gum & synthetic resins	14,444			16,945		
Foundries & foundry supplies	809			616		
Furniture	174			164		
Insecticides & disinfectants	15			16		
Linoleum & floor covering	3			36		
Matches	0			0		
Oils & greases	27			72		
Paint, varnish & lacquer	17,059			17,828		
Paper & paper size	0			0		
Printing ink	200			216		
Railroads & shipyards	6,390			8,518		
Rubber	399			629		
Shoe polish & shoe materials	8,652			11,336		
Soap	0			0		
Other industries	180			211		
Total industrial reported	140,059	24,723	115,336	164,090	33,580	130,510
Not accounted for ^{2/}	343,361	221,001	122,360	348,325	268,416	79,909
Apparent U.S. consumption ^{3/}	483,420	245,724	237,696	512,415	301,996	210,419

1/ Separation of gum and wood turpentine consumption will be limited for the present to the total reported.

2/ Principally unreported distribution of turpentine through retailers who sell in small quantities to ultimate consumers.

3/ From Table 1a, page 1.

TABLE 8b - REPORTED CONSUMPTION OF ROSIN IN UNITED STATES (Drums - 520 lbs. net)
(By naval stores crop years, beginning April 1 and ending March 31)

	<u>1946-47</u>			<u>1945-46</u>		
	<u>12 mos. (Apr. - Mar.)</u>			<u>12 mos. (Apr. - Mar.)</u>		
	<u>Total</u>	<u>Gum^{1/}</u>	<u>Wood^{1/}</u>	<u>Total</u>	<u>Gum^{1/}</u>	<u>Wood^{1/}</u>
Abattoirs	590			455		
Adhesives & plastics	20,249			22,656		
Asphaltic products	1,622			1,727		
Automobiles & wagons	442			109		
Chemicals & pharmaceuticals	344,207 ^{2/}			272,303 ^{2/}		
Ester gum & synthetic resins	269,406			250,835		
Foundries & foundry supplies	13,197			14,364		
Furniture	4			3		
Insecticides & disinfectants	5,170			5,407		
Linoleum & floor covering	20,209			9,602		
Matches	1,937			1,304		
Oils & greases	17,493			26,431		
Paint, varnish & lacquer	113,355			101,240		
Paper & paper size	341,772			274,022		
Printing ink	9,392			7,435		
Railroads & shipyards	8,827			17,747		
Rubber	26,288			21,234		
Shoe polish & shoe materials	5,362			5,604		
Soap	152,808			182,683		
Other industries	4,615			4,073		
Total industrial reported	1,356,945 ^{2/}	538,588	818,357 ^{2/}	1,219,234 ^{2/}	616,189	603,045 ^{2/}
Not accounted for ^{3/}	15,245	3,884	11,361	48,155 ^{4/}	11,105	37,050 ^{4/}
Apparent U.S. consumption ^{5/}	1,372,190	542,472	829,718	1,267,389 ^{4/}	627,294	640,095 ^{4/}

- 1/ Separation of gum and wood rosin consumption will be limited for the present to the total reported. The breakdown shown is an approximation.
- 2/ Includes, as rosin consumed, the "B wood resin" produced in refining FF wood rosin to paler grades. No data are reported on the consumption of "B wood resin" as such.
- 3/ The discrepancy between the total industrial consumption reported and the apparent U. S. consumption is due partly to unreported industrial consumption and partly to failure of some consumers to distinguish in their reports between gum rosin, wood rosin, and modified or derived rosins.
- 4/ Revised from previous annual report, correcting error in the carryover stocks of wood rosin.
- 5/ From Table 1b, page 2.

TABLE 9a - SUPPLY AND DISTRIBUTION OF TURPENTINE

SUMMARY FOR EIGHT YEARS
(Bbls. - 50 gals.)

Crop Year, April 1 to March 31	1946-47	1945-46	1944-45	1943-44	1942-43	1941-42	1940-41	1939-40
U. S. Stocks at Opening of Crop Year, April 1	100,749	202,546	295,581	288,213	156,369	209,910	220,267	314,323
Production During Crop Year:								
Gum	270,286	244,252	245,194	288,382	321,930	285,950	343,938	382,781
Wood								
Steam Distilled	167,659	129,191	117,265	125,171	148,166	190,048	161,161	158,575
Sulphate	127,491	110,262	104,307	91,045	84,484	64,986	54,081	56,631
Destructively Distilled	4,549	4,516	4,477	3,834	5,771	8,712	7,161	6,791
Total Production	569,985	438,131	471,243	508,432	560,351	543,796	566,341	604,778
Imports	15,849	14,932	15,382	17,818	11,288	13,632	16,688	16,492
Total Available Supplies	686,583	705,609	782,206	814,463	728,008	772,338	803,296	935,593
U. S. Stocks at End of Crop Year, March 31	98,205	100,749	202,546	295,581	288,213	156,369	209,910	220,267
Total Disappearance	588,378	604,860	579,660	518,882	439,795	615,969	593,386	715,326
Less Exports:								
Gum	64,066	67,111	49,780	26,812	21,872	79,447	103,127	139,684
Wood	40,892	25,334	15,483	19,072	20,808	33,523	27,728	48,754
Total Exports	104,958	92,445	65,263	45,884	42,680	112,970	130,855	238,438
Apparent U. S. Consumption	483,420	512,415	514,397	472,998	397,115	502,999	462,531	476,888

TABLE 9b - SUPPLY AND DISTRIBUTION OF ROSIN

SUMMARY FOR EIGHT YEARS
(Drums - 520 lbs. net)

Crop Year, April 1 to March 31	1946-47	1945-46	1944-45	1943-44	1942-43	1941-42	1940-41	1939-40
U. S. Stocks at Opening of Crop Year, April 1	375,898	388,266	794,786	1,284,229	1,147,742	1,499,328	1,255,517	1,297,577
Production During Crop Year:								
Gum	752,535	694,476	692,212	783,565	868,698	791,710	938,911	1,054,236
Wood	967,713	757,560	625,700	679,266	787,105	916,764	778,581	759,474
Total Production	1,720,248	1,452,036	1,317,912	1,462,831	1,655,803	1,708,474	1,717,492	1,813,710
Imports	192	9,795	17,238	4,340	1,211	1,651	1,783	2,326
Total Available Supplies	2,096,338	1,850,097	2,129,936	2,751,400	2,804,756	3,209,453	2,974,797	3,113,613
U. S. Stocks at End of Crop Year, March 31	222,701	375,898 ^{1/}	388,266	794,786	1,284,229	1,147,742	1,499,328	1,255,517
Total Disappearances	1,873,637	1,474,199 ^{1/}	1,741,670	1,956,614	1,520,527	2,061,711	1,475,469	1,858,096
Less Exports:								
Gum	320,475	105,354	160,092	311,007	189,576	342,935	220,337	471,076
Wood	180,972	101,456	55,591	143,680	139,560	233,411	203,473	309,628
Total Exports	501,447	206,810	215,683	454,687	329,136	576,346	423,810	780,704
Apparent U. S. Consumption	1,372,190	1,267,389 ^{1/}	1,525,987	1,501,927	1,191,391	1,485,365	1,051,659	1,077,392

^{1/} Revised from previous annual report, correcting error in the carryover stocks of wood rosin.

TABLE 10a - WEIGHTED^{1/} AVERAGE MONTHLY AND CROP YEAR PRICES OF GUM SPIRITS OF TURPENTINE - 1930-31 to 1946-47^{2/}
(Based upon Wednesdays and Saturdays Closing Savannah Prices)^{3/}

Crop Year	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Average
	Cents per Gallon												
1930-31	48.42	43.51	41.33	37.56	35.32	38.26	35.60	37.03	36.14	38.11	39.97	47.81	39.34
1931-32	50.44	49.42	50.69	39.77	31.40	31.88	31.17	35.21	33.83	34.68	34.84	40.06	40.10
1932-33	39.50	39.44	38.64	35.94	37.68	41.09	40.86	39.71	37.04	39.88	39.75	39.46	38.82
1933-34	37.88	42.47	40.39	46.39	42.83	41.97	40.81	42.14	42.07	47.44	57.00	55.00	42.72
1934-35	53.66	50.81	46.44	42.82	41.83	41.19	46.59	48.00	46.46	49.59	50.53	49.71	45.64
1935-36	47.37	47.07	44.46	42.40	38.47	40.91	45.76	44.92	43.96	45.19	44.44	39.31	43.56
1936-37	37.43	36.26	35.86	36.44	38.73	37.19	36.33	38.25	41.59	43.13	41.84	39.01	37.48
1937-38	35.97	35.83	34.07	33.44	31.94	29.93	27.28	26.92	26.14	28.18	26.47	25.42	31.36
1938-39	23.18	22.69	22.56	23.24	22.53	20.92	22.81	22.32	22.31	24.78	25.56	28.42	22.61
1939-40	24.96	23.93	24.00	24.11	23.72	26.11	27.16	25.72	27.00	30.17	32.91	31.67	25.31
1940-41	28.78	27.65	26.25	26.69 ^{4/}	28.69	30.80	34.99	38.37	37.11	42.05	38.78	39.25	30.03
1941-42 ^{1/}	42.11	43.00	42.17	48.28	67.83	74.84	78.08	75.61	73.44	75.89	75.19	73.08	63.85
1942-43	65.47	61.22	62.12	64.30	61.06	66.28	70.08	69.84	69.50	69.59	69.09	69.69	66.52
1943-44	69.46	69.47	72.08	72.77	73.03	72.14	74.53	81.60	80.87	83.03	83.59	82.60	76.26
1944-45	82.58	83.31	83.53	82.53	84.47	84.67	84.50	84.50	85.00	85.31	87.00	86.63	84.50
1945-46	86.16	85.83	85.44	80.93	82.19	83.44	86.31	87.69	89.38	89.50	89.50	89.50	86.41
1946-47	89.50	89.50	89.50	103.21	89.50	108.31	111.00	133.03	130.71	127.36	120.50	104.44	108.05

^{1/} Prior to 1941-42, monthly prices were obtained by averaging Wednesday and Saturday closing prices. The crop year average price was obtained by multiplying each monthly price by the combined reported receipts during that month at Savannah, Jacksonville, and Pensacola and dividing the total of these figures for the crop year by the total receipts for that crop year, thereby giving the months of heavy receipts and of low receipts their proper relative value. For 1941-42 and thereafter, only simple averages are shown.

^{2/} Prices for 1921-22 to 1930-31 crop years will be found in previous annual and semi-annual reports in this series.

^{3/} After November, 1936, Wednesday and Friday Savannah prices were used when there was no quoted Saturday market. Beginning July 1, 1940, quoted Savannah turpentine prices were exclusive of package. To complete this table and to present figures comparable with previous quotations, beginning July 1, 1940, 6 cents per gallon has been added to the Savannah quotations.

Sources of data: Florida inspections and monthly receipts at Savannah, Jacksonville, and Pensacola, the Naval Stores Review, Daily Market Reports of the Savannah Exchange, Jacksonville and Pensacola Chambers of Commerce, and Economic Analysis Unit, General Crops Section, Agricultural Adjustment Administration.

TABLE 10b - WEIGHTED/ AVERAGE MONTHLY AND CROP YEAR PRICES^{2/} OF GUM ROSIN - 1930-31 to 1946-47^{3/}
(Based upon Wednesdays and Saturdays Closing Savannah Prices)^{4/}

Crop Year	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Average
	Dollars per 100 pounds net weight ^{2/}												
1930-31	2.98	2.68	2.46	2.08	1.92	2.07	1.90	1.93	1.94	1.87	1.97	2.15	2.18
1931-32	2.16	2.18	2.29	1.72	1.36	1.32	1.28	1.42	1.35	1.35	1.38	1.60	1.69
1932-33	1.30	1.27	1.19	1.10	1.01	1.40	1.33	1.28	1.27	1.30	1.26	1.26	1.23
1933-34	1.28	1.54	1.53	1.78	1.67	1.70	1.68	1.70	1.70	1.84	2.19	2.20	1.69
1934-35	2.21	2.12	1.98	1.87	1.90	1.93	1.97	1.93	1.95	2.06	2.11	2.08	1.98
1935-36	2.03	2.05	1.99	1.93	1.79	1.90	2.09	2.05	1.98	2.00	1.99	2.00	1.97
1936-37	1.90	1.88	2.04	2.36	2.90	2.61	2.71	3.16	4.03	4.43	4.24	3.90	2.79
1937-38	3.51	3.61	3.54	3.48	3.47	3.49	3.20	2.70	2.41	2.57	2.34	2.06	3.20
1938-39	2.12	2.03	2.09	2.24	2.17	2.05	2.30	2.45	2.21	2.23	2.30	2.52	2.18
1939-40	2.27	2.26	2.32	2.39	2.32	2.46	2.49	2.41	2.34	2.41	2.40	2.43	2.37
1940-41	2.26	2.20	2.04	1.74	1.94	1.83	1.93	2.05	1.96	2.07	2.04	2.10	1.98
1941-42	2.04	1.99	2.01	2.28	2.55	2.62	2.58	2.77	3.09	3.43	3.52	3.40	2.69
1942-43	3.07	2.89	2.93	3.10	2.93	3.33	3.49	3.50	3.48	3.57	3.55	3.75	3.30
1943-44	3.67	3.64	3.63	3.75	4.01	4.02	4.21	4.47	4.55	4.60	4.78	5.08	4.20
1944-45	4.93	5.09	5.68	5.55	5.51	5.55	5.76	5.85	5.85	5.85	5.85	5.85	5.61
1945-46	5.85	5.85	5.85	5.85	6.38	6.80	6.80	6.80	6.80	6.80	6.80	6.80	6.45
1946-47	6.80	6.73	6.72	6.90	6.74	7.33	7.64	7.66	7.86	8.63	9.38	9.40	7.65

Note: Rosin Grades included in average prices are:-- X, WG, N, M, K, I, H, G, F, E, D, B.

- 1/ Prior to 1941-42, monthly prices were obtained by multiplying the average of the Wednesday and Saturday closing prices of each grade by the number of barrels of each grade reported as inspected in Florida during that month, and dividing the total of the resulting figures by the total number of barrels inspected in Florida during that month, thereby giving the proper relative value to each grade. The crop year average price was obtained by multiplying each monthly price by the combined reported receipts during that month at Savannah, Jacksonville, and Pensacola and dividing the total of these figures for the crop year by the total receipts for the crop year, thereby giving the months of heavy receipts and of low receipts their proper relative value. For 1941-42 and thereafter, only simple averages in terms of dollars per 100 pounds net weight are shown.
- 2/ Prior to 1941, all rosin prices were quoted in dollars per trade barrel of 280 pounds gross weight. Since 1941, prices are quoted in dollars per 100 pounds net weight. In order to simplify comparisons, all prices in this table have been calculated to the basis of 100 pounds net weight.
- 3/ Prices for 1921-22 to 1930-31 crop years will be found in previous annual and semi-annual reports in this series.
- 4/ After November, 1936, Wednesday and Friday Savannah prices were used when there was no quoted Saturday market.

Sources of data: Florida inspections and monthly receipts at Savannah, Jacksonville, and Pensacola, the Naval Stores Review, Daily Market Reports of the Savannah Exchange, Jacksonville and Pensacola Chambers of Commerce, and Economics Analysis Unit, General Crops Section, Agricultural Adjustment Administration.

TABLE 11 - TURPENTINE CUPS SOLD FOR SEASONS 1923-24 to 1947-48

A compilation of information furnished by the manufacturers of turpentine cups shows that a total of 7,093,000 cups was sold during this naval stores season for use in gathering the 1947-48 crop of naval stores.

Sales of new cups for the past 25 seasons were reported as follows:

1947-48	7,093,000	1934-35	11,707,859
1946-47	6,576,000	1933-34	11,088,332
1945-46	6,084,000	1932-33	3,620,000
1944-45	4,649,000	1931-32	1,085,000
1943-44	4,253,000	1930-31	11,178,800
1942-43	8,648,400	1929-30	24,488,760
1941-42	2,744,000	1928-29	12,589,000
1940-41	7,567,659	1927-28	32,310,000
1939-40	1,638,300	1926-27	20,500,000
1938-39	10,525,180	1925-26	10,052,000
1937-38	17,204,900	1924-25	13,249,000
1936-37	17,530,000	1923-24	24,828,500
1935-36	6,212,240		

ADDENDA

Additional information pertaining to naval stores may be obtained as follows:

For periods prior to 1942, for monthly, quarterly, and annual reports on imports and exports of turpentine and rosin, address: Foreign Trade Statistics, Bureau of the Census, Department of Commerce, Washington, D. C. Price ten cents per copy.

For biennial census of the production of turpentine and rosin, address: Bureau of the Census, Department of Commerce, Washington, D. C.

For information on the southern forest survey showing turpentine timber resources, address: Southern Forest Experiment Station, Rural Route 3, New Orleans, Louisiana.

For information regarding the production, distribution, consumption and stocks of turpentine and rosin, address: Crop Reporting Board, Bureau of Agricultural Economics, U. S. Department of Agriculture, Washington 25, D. C.